

advancedligo

DCC Number: E070285-01-D

Date Prepared: 11/9/07

Originator		Cognizant Engineer	Ext./Phone#	Project	Account Number
Name	Jeff Kissel	Ken Mason	617-324-5250	ELIGO HAM SEI	

Dwg/Part Number	Rev	Part Description / Material	Qty
D071009		Particle fence, AL 6061	3
D071160		Sensor Target Mount, AL 6061	7
D071161		Sensor Head Base, AL 6061	7
D071162		Sensor Head Washer, AL 6061	6
D071163		Sensor Head Mount, AL 6061	6
D071164		Sensor Head Base Plate, AL 6061	6
D071165		Sensor Target-- AL 1100 DIAMOND TURNED FINISH- TAKE CARE IN CLEANING	8
D071166		Sensor Target Body, AL 6061	9
D071170		Sensor Head Standoff, Horiz., AL 6061	3
D071175		Sensor Head Bracket, Vert., AL 6061	3
D071183		GS-13 Cable Restraint, AL 6061	8

Used In (next higher assembly):

Vendor Name	PO/Contract Number
HPD	

Data Package, Receiving/Inspection Remarks:

Inspection Required Y/N	Visual Damage Y/N	Comments	Name/ Initials	Date Comp.
			Bob Taylor	

Digitally signed by Bob Taylor
DN: cn=Bob Taylor, o=Caltech, ou=CIT LIGO,
email=taylor_r@ligo.caltech.edu, c=US
Date: 2007.11.27 08:37:25 -0800

Process Flow:

#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
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N.B.: A copy of this traveller must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveller has been completed.

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#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
1	Clean		Caltech	<ul style="list-style-type: none"> ○ clean per E960022: Ultrasonic clean in Liquinox¹ for 10 minutes. ○ Rinse in distilled water at least 3 times, changing the rinse water every time. ○ Ultrasonic clean in methanol for 10 minutes. 	Bob Taylor	Digitally signed by Bob Taylor DN: cn=Bob Taylor, o=Caltech, ou=CIT LIGO, email=taylor_r@ligo.caltech.edu, c=US Date: 2007.11.29 10:47:25 -08'00'
2	Vacuum Bake			per E960022: 120°C, 48 hrs	Bob Taylor	Digitally signed by Bob Taylor DN: cn=Bob Taylor, o=Caltech, ou=CIT LIGO, email=taylor_r@ligo.caltech.edu, c=US Date: 2007.11.29 10:47:25 -08'00'
3	Control Point			Review/Approve RGA scan	Dennis Coyne	Digitally signed by Dennis Coyne DN: cn=Dennis Coyne, o=US, ou=Caltech, ou=LIGO, email=dc@ligo.caltech.edu Reason: I am approving this document Date: 2007.11.04.12:18:50 -0800
4	Wrap & Tag vacuum clean parts				Bob Taylor	Digitally signed by Bob Taylor DN: cn=Bob Taylor, o=Caltech, ou=CIT LIGO, email=taylor_r@ligo.caltech.edu, c=US Date: 2007.12.05 07:02:11 -08'00'
5	Ship and Deliver/File paperwork			Please send to: LLO c/o Ken Mason File one copy of traveler with the DCC. Note: Ship original traveler with these parts.	Bob Taylor	Digitally signed by Bob Taylor DN: cn=Bob Taylor, o=Caltech, ou=CIT LIGO, email=taylor_r@ligo.caltech.edu, c=US Date: 2007.12.05 07:02:11 -08'00'

END: Go to Traveler or procedure associated with next higher assembly processing

Special Instructions (Handling/Packaging Constraints, Remarks, etc.) or Notes:

These are aluminum for the enhanced LIGO HAM SEI at Livingston. They're needed by Mid to Late November 2007.

¹ Standard Liquinox solution is 1 tablespoon in 1 gallon of water.

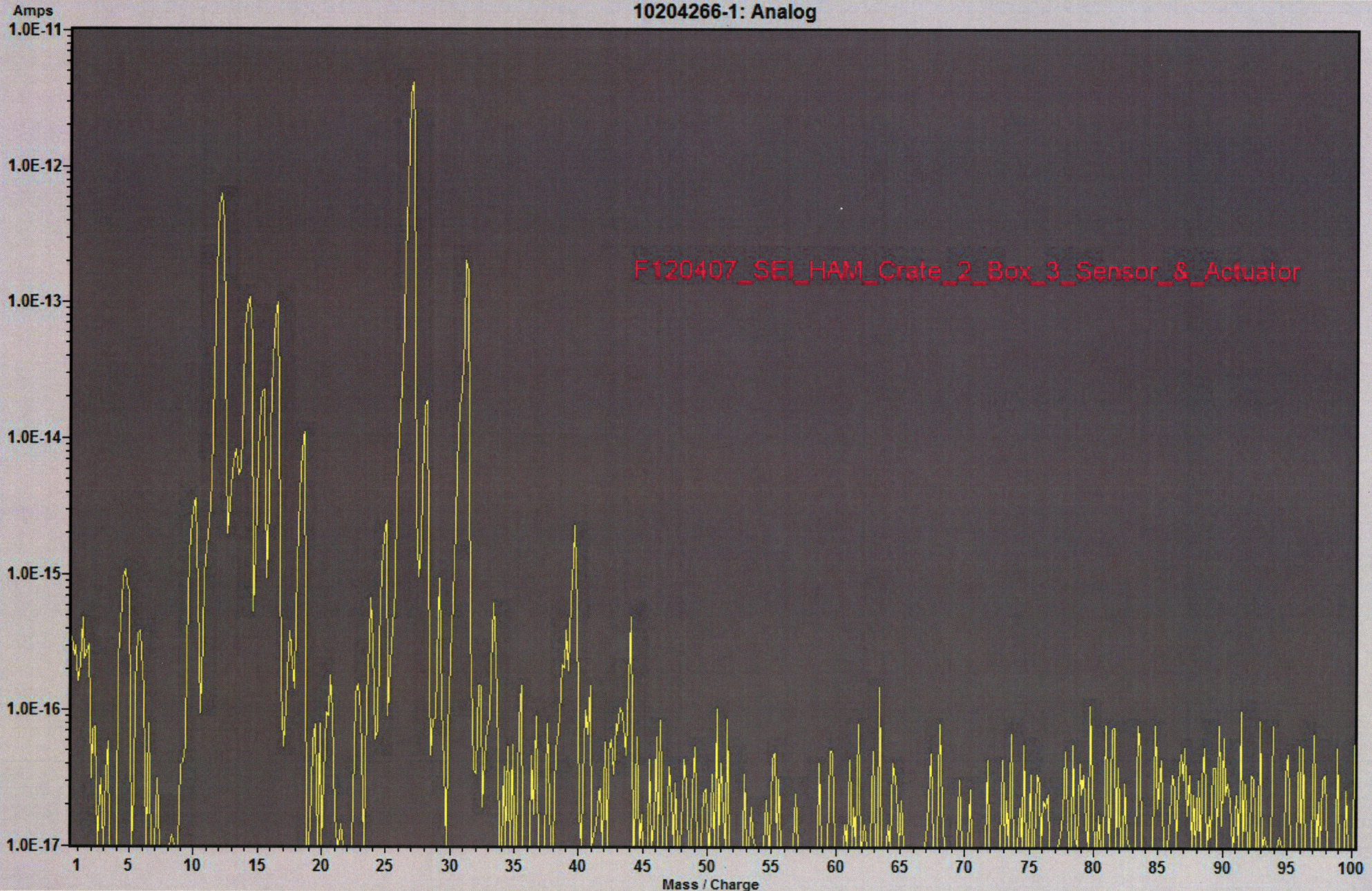
N.B.: A copy of this traveller must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveller has been completed.

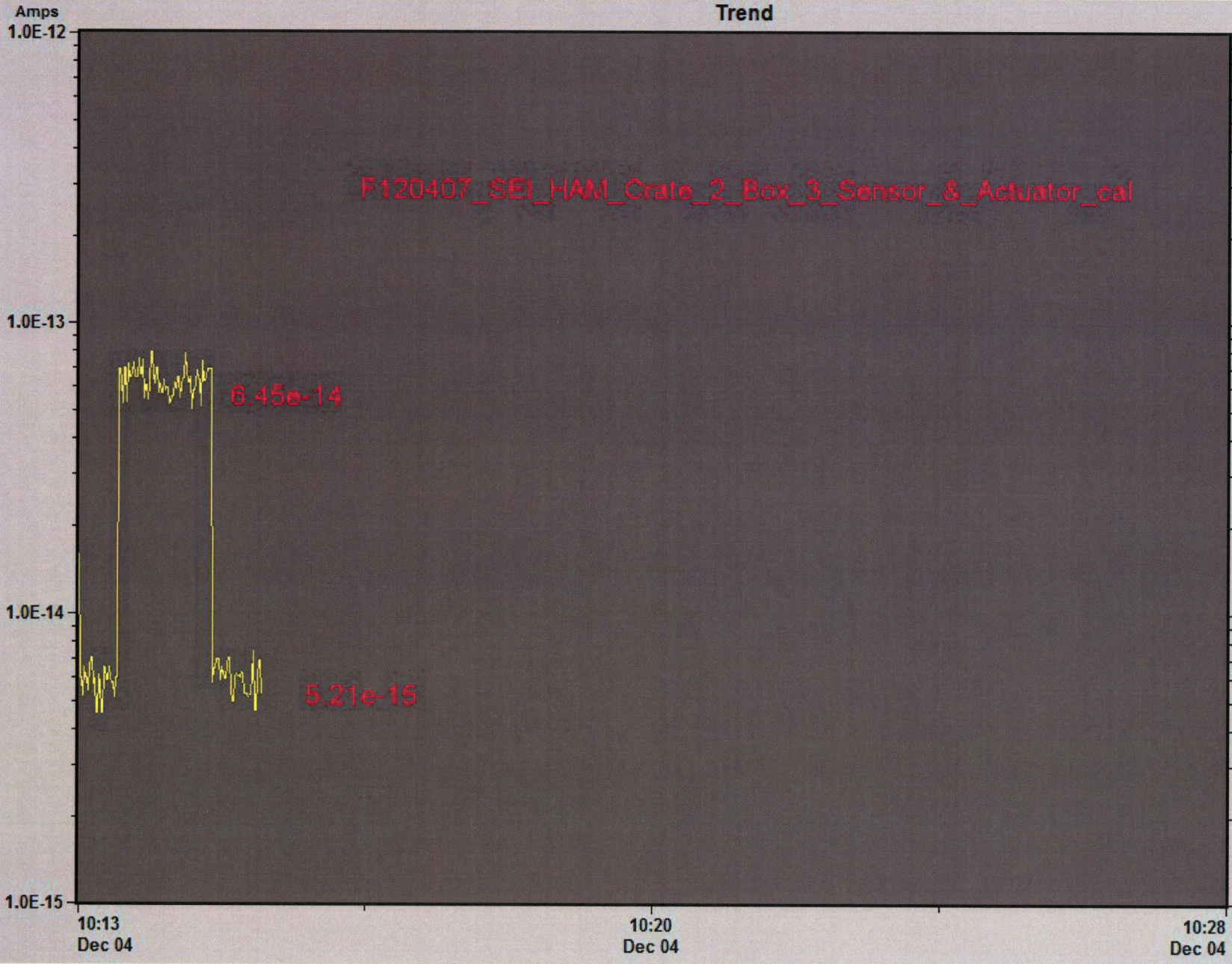
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10204266-1: 28 5.21E-15

Pressure Contribution from Flag Hydrocarbons

40M Lab RGA Scan Results

Job# F120407

Description: SEI Ham Crate 1,Box2, Sensor,& Act
Oven Used: C

Date: 12/4/2007

AMU 41	1.50E-16 amps	from RGA scan listing
AMU 43	1.00E-16 amps	from RGA scan listing
AMU 53	3.50E-17 amps	from RGA scan listing
AMU 55	2.00E-17 amps	from RGA scan listing
AMU 57	2.00E-17 amps	from RGA scan listing

Sum Flag H/C AMUs 3.25E-16 amps

Calib leak rate 2.36E-10 torr l/s (Argon)

AMU 40 (w/leak open) 6.45E-14 amps

AMU 40 (background) 5.21E-15 amps

Calib leak contributes 5.93E-14 amps = (w/leak open) - (background)

Flag H/C Outgassing 1.294E-12 torr l/s = (Sum Flag H/C AMUs) x (Calib leak rate)/(Calib leak contrib.)

Test item surf area 1.00E+04 cm²

Normalized outgassing 1.294E-16 torr l/s-cm² = Flag H/C Outgassing/Test item surf area

see travelers; E070295-00 , E070285-00 , And some parts ar on Traveler E070236-00
Full description: marked with *. (all aluminum parts)

Pre-scan bake: 120C for 48Hrs